

Client's ref.: 00103028US

Our ref: 0535-A20072US/fianl/tklin / Steve

What is claimed is:

1. A color filter assembly rotating around a central axis thereof, comprising:

a first carrier having a first contact surface and a first joining portion protruding therefrom;

a second carrier having a second contact surface and a second joining portion connected to the first joining portion;

a protrusion disposed on the first or second contact surface; and

a color filter having a receiving portion with the protrusion inserted therein such that the color filter is fixed between the first and second carriers.

2. The color filter assembly as claimed in claim 1, wherein the protrusion is enclosed by a flexible material.

3. The color filter assembly as claimed in claim 1, wherein the first and second joining portions are threaded and joined thereby.

4. A color filter assembly rotating around a central axis thereof, including:

a first carrier having a first contact surface and at least a first hole disposed thereon;

a second carrier having a second contact surface and at least a second hole disposed thereon;

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a color filter disposed between the first and second contact surface, having at least an opening disposed thereon; and

5 a securing member having at least a rod fastened through the first hole, the opening and the second hole such that the color filter is fixed between the first and second carriers.

5. The color filter assembly as claimed in claim 4, wherein the securing member has two abutting members joined
10 to the rod for securing the color filter between the first and second carriers.

6. A color filter assembly rotating around a central axis thereof, including:

15 a first carrier having a first contact surface and at least a first hole formed therein;

a second carrier having a second contact surface and at least a second hole disposed thereon;

20 a color filter disposed between the first and second contact surfaces, having at least an opening formed therein; and

a securing member having at least a rod inserted through the first hole, the opening and the second hole and at least an abutting member connected to the rod for securing the color
25 filter between the first and second carriers.

7. The color filter assembly as claimed in claim 6, wherein the rod, the first hole, the opening and the second

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hole are threaded for joining the color filter, the first and second carriers.

8. A color wheel, including:

a color filter assembly of claim 1; and

5 a rotator having a shaft rotating the color filter assembly around the central axis.

9. The color wheel as claimed in claim 8, wherein the first and second joining portions are threaded.

10 10. The color wheel as claimed in claim 8, wherein the protrusion is enclosed by a flexible material.

11. A color wheel, including:

a color filter assembly of claim 4; and

a rotator having a shaft rotating the color filter assembly around the central axis.

15 12. The color wheel as claimed in claim 11, wherein the securing member has two abutting members threaded and joined to the rod for securing the color filter between the first and second carriers.

13. A color wheel, including:

20 a color filter assembly of claim 6; and

a rotator having a shaft rotating the color filter assembly around the central axis.

14. The color filter assembly as claimed in claim 13, wherein the rod, the first hole, the opening and the second
25 hole are threaded for securing the color filter between the first and second carriers.